



Actual Wellpath Report

SWN A WTZ 201H AWB_awp 50' - 16716' Proj: 1674
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 Environmental Protection



REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	SWN A WTZ 201H
Field	Wetzel	API/Legal	
Facility	SWN A WTZ Pad	Wellbore	SWN A WTZ 201H AWB
Slot	Slot 201H		

REPORT SETUP INFORMATION			
Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Tranlam
Scale	0.999612	Report Generated	2/1/2022 at 12:28:51 AM
Convergence at slot	0.23° East	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-5.66	107.82	1741792.55	14411385.88	39°40'57.5958"N	80°38'22.8192"W
Facility Reference Pt			1741684.77	14411391.54	39°40'57.6560"N	80°38'24.1980"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.4780"W

WELLPATH DATUM			
Calculation method	Minimum curvature	SDC 41 (RKB) to Facility Vertical Datum	1369.20ft
Horizontal Reference Pt	Slot	SDC 41 (RKB) to Mean Sea Level	1369.20ft
Vertical Reference Pt	SDC 41 (RKB)	SDC 41 (RKB) to Ground Level at Slot (Slot 201H)	26.00ft
MD Reference Pt	SDC 41 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	312.65°

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WELLPATH DATA (192 stations) † = interpolated, ‡ = extrapolated station													
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS ["/100ft]
0.00†	0.000	21.260	0.00	0.00	0.00	0.00	1741792.55	14411385.88	39°40'57.5958"N	80°38'22.8192"W	0.00	0.000	0.00
26.00	0.000	21.260	26.00	0.00	0.00	0.00	1741792.55	14411385.88	39°40'57.5958"N	80°38'22.8192"W	0.00	0.000	0.00
50.00	0.240	21.260	50.00	0.02	0.05	0.02	1741792.57	14411385.93	39°40'57.5963"N	80°38'22.8190"W	0.05	21.260	1.00
100.00	0.210	357.400	100.00	0.12	0.24	0.05	1741792.60	14411386.12	39°40'57.5981"N	80°38'22.8186"W	0.24	12.437	0.20
150.00	0.320	27.130	150.00	0.22	0.45	0.11	1741792.66	14411386.33	39°40'57.6003"N	80°38'22.8178"W	0.47	13.871	0.35
200.00	0.310	18.530	200.00	0.32	0.70	0.22	1741792.77	14411386.58	39°40'57.6028"N	80°38'22.8164"W	0.74	17.215	0.10
250.00	0.280	6.560	250.00	0.44	0.95	0.28	1741792.83	14411386.83	39°40'57.6052"N	80°38'22.8157"W	0.99	16.090	0.14
300.00	0.300	351.620	300.00	0.62	1.20	0.27	1741792.82	14411387.08	39°40'57.6077"N	80°38'22.8157"W	1.23	12.633	0.16
350.00	0.240	319.170	350.00	0.82	1.41	0.18	1741792.73	14411387.29	39°40'57.6098"N	80°38'22.8168"W	1.43	7.356	0.32
370.00	0.270	323.070	370.00	0.91	1.48	0.13	1741792.68	14411387.36	39°40'57.6105"N	80°38'22.8175"W	1.49	4.887	0.17
421.00	0.520	325.020	421.00	1.26	1.77	-0.08	1741792.47	14411387.65	39°40'57.6133"N	80°38'22.8201"W	1.77	357.472	0.49
512.00	1.460	311.720	511.98	2.82	2.88	-1.18	1741791.37	14411388.76	39°40'57.6243"N	80°38'22.8342"W	3.11	337.706	1.06
605.00	2.890	319.310	604.91	6.33	5.44	-3.59	1741788.96	14411391.32	39°40'57.6498"N	80°38'22.8649"W	6.52	326.578	1.57
696.00	4.790	310.820	695.70	12.41	9.67	-7.96	1741784.59	14411395.54	39°40'57.6917"N	80°38'22.9206"W	12.53	320.519	2.17
788.00	6.570	307.030	787.25	21.49	15.35	-15.07	1741777.48	14411401.22	39°40'57.7481"N	80°38'23.0113"W	21.51	315.519	1.98
881.00	6.510	304.240	879.64	32.00	21.52	-23.68	1741768.88	14411407.39	39°40'57.8094"N	80°38'23.1210"W	32.00	312.265	0.35
971.00	5.140	292.690	969.18	40.83	25.95	-31.62	1741760.95	14411411.82	39°40'57.8535"N	80°38'23.2223"W	40.90	309.373	2.00
1063.00	4.280	266.840	1060.88	47.10	27.35	-38.85	1741753.72	14411413.22	39°40'57.8676"N	80°38'23.3147"W	47.51	305.143	2.46
1154.00	3.800	243.480	1151.66	50.54	25.81	-44.94	1741747.63	14411411.68	39°40'57.8527"N	80°38'23.3927"W	51.82	299.874	1.87
1247.00	2.500	204.180	1244.53	50.99	22.59	-48.53	1741744.04	14411408.46	39°40'57.8209"N	80°38'23.4388"W	53.52	294.959	2.63
1337.00	2.310	175.110	1334.45	49.03	18.99	-49.18	1741743.39	14411404.86	39°40'57.7854"N	80°38'23.4472"W	52.71	291.113	1.36
1429.00	3.370	174.590	1426.34	45.65	14.45	-48.76	1741743.81	14411400.32	39°40'57.7405"N	80°38'23.4422"W	50.86	286.505	1.15
1519.00	4.410	194.260	1516.13	42.04	8.46	-49.37	1741743.20	14411394.34	39°40'57.6814"N	80°38'23.4502"W	50.09	279.726	1.86
1611.00	5.330	200.150	1607.80	38.72	1.02	-51.71	1741740.86	14411386.90	39°40'57.6079"N	80°38'23.4806"W	51.72	271.131	1.14
1701.00	5.870	197.830	1697.37	35.19	-7.28	-54.56	1741738.01	14411378.60	39°40'57.5260"N	80°38'23.5174"W	55.04	262.395	0.65
1792.00	7.260	200.960	1787.77	31.11	-17.08	-58.04	1741734.53	14411368.80	39°40'57.4293"N	80°38'23.5625"W	60.50	253.598	1.58
1882.00	8.890	204.490	1876.88	26.84	-28.72	-62.96	1741729.62	14411357.17	39°40'57.3144"N	80°38'23.6260"W	69.20	245.475	1.89
1974.00	10.550	211.670	1967.55	23.02	-42.36	-70.33	1741722.25	14411343.53	39°40'57.1799"N	80°38'23.7209"W	82.10	238.936	2.23
2064.00	11.620	214.120	2055.87	20.11	-56.88	-79.74	1741712.84	14411329.02	39°40'57.0368"N	80°38'23.8420"W	97.95	234.498	1.30
2154.00	13.830	216.490	2143.66	17.61	-73.03	-91.22	1741701.37	14411312.88	39°40'56.8777"N	80°38'23.9897"W	116.85	231.318	2.52



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Field	Wetzel	API/Legal	
Facility	SWN A WTZ Pad	Wellbore	SWN A WTZ 201H AWB
Slot	Slot 201H		

WELLPATH DATA (192 stations)													
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
2246.00	15.520	215.100	2232.66	14.81	-91.94	-104.84	1741687.75	14411293.97	39°40'56.6913"N	80°38'24.1649"W	139.44	228.748	1.88
2336.00	19.870	215.210	2318.38	11.25	-114.30	-120.59	1741672.01	14411271.62	39°40'56.4709"N	80°38'24.3675"W	166.15	226.532	4.83
2428.00	22.770	213.700	2404.07	6.45	-141.90	-139.48	1741653.12	14411244.04	39°40'56.1990"N	80°38'24.6106"W	198.97	224.509	3.21
2520.00	24.080	212.360	2488.49	0.33	-172.56	-159.41	1741633.20	14411213.38	39°40'55.8967"N	80°38'24.8670"W	234.92	222.731	1.54
2610.00	23.820	211.110	2570.74	-6.58	-203.63	-178.63	1741613.99	14411182.33	39°40'55.5904"N	80°38'25.1144"W	270.88	221.257	0.63
2702.00	22.960	208.570	2655.18	-14.67	-235.30	-196.81	1741595.82	14411150.67	39°40'55.2782"N	80°38'25.3486"W	306.75	219.910	1.44
2792.00	19.910	206.750	2738.95	-23.14	-264.41	-212.10	1741580.53	14411121.58	39°40'54.9911"N	80°38'25.5457"W	338.97	218.736	3.47
2843.00	17.650	206.880	2787.23	-27.62	-279.06	-219.51	1741573.13	14411106.93	39°40'54.8466"N	80°38'25.6412"W	355.05	218.189	4.43
2945.00	16.110	206.230	2884.83	-35.82	-305.55	-232.76	1741559.89	14411080.45	39°40'54.5854"N	80°38'25.8120"W	384.10	217.299	1.52
2990.00	16.460	206.030	2928.03	-39.41	-316.88	-238.31	1741554.33	14411069.13	39°40'54.4736"N	80°38'25.8836"W	396.49	216.946	0.79
3082.00	21.100	208.280	3015.10	-47.25	-343.19	-251.89	1741540.76	14411042.83	39°40'54.2141"N	80°38'26.0586"W	425.70	216.277	5.10
3176.00	21.900	210.560	3102.57	-55.12	-373.18	-268.82	1741523.84	14411012.84	39°40'53.9184"N	80°38'26.2767"W	459.92	215.766	1.23
3267.00	22.950	211.390	3186.68	-62.14	-402.94	-286.69	1741505.98	14410983.09	39°40'53.6250"N	80°38'26.5067"W	494.52	215.431	1.21
3358.00	23.080	208.190	3270.44	-70.06	-433.81	-304.35	1741488.31	14410952.24	39°40'53.3206"N	80°38'26.7343"W	529.93	215.053	1.38
3450.00	23.700	211.240	3354.89	-78.22	-465.51	-322.46	1741470.21	14410920.55	39°40'53.0080"N	80°38'26.9675"W	566.29	214.710	1.48
3540.00	23.680	213.740	3437.30	-84.60	-496.01	-341.88	1741450.80	14410890.06	39°40'52.7074"N	80°38'27.2175"W	602.42	214.577	1.12
3632.00	23.470	211.300	3521.63	-91.07	-527.03	-361.66	1741431.03	14410859.06	39°40'52.4016"N	80°38'27.4721"W	639.18	214.459	1.08
3724.00	23.510	214.540	3606.01	-97.26	-557.80	-381.58	1741411.11	14410828.30	39°40'52.0983"N	80°38'27.7284"W	675.83	214.376	1.40
3815.00	23.240	211.430	3689.54	-103.31	-588.07	-401.24	1741391.47	14410798.04	39°40'51.7999"N	80°38'27.9814"W	711.91	214.306	1.39
3905.00	23.250	212.550	3772.24	-109.88	-618.19	-420.05	1741372.66	14410767.93	39°40'51.5030"N	80°38'28.2236"W	747.40	214.196	0.49
3997.00	22.670	209.280	3856.95	-117.17	-648.97	-438.50	1741354.22	14410737.17	39°40'51.1996"N	80°38'28.4610"W	783.22	214.046	1.52
4087.00	22.980	209.050	3939.90	-125.31	-679.45	-455.51	1741337.22	14410706.69	39°40'50.8990"N	80°38'28.6802"W	818.01	213.838	0.36
4181.00	24.080	210.640	4026.09	-133.62	-711.99	-474.19	1741318.54	14410674.16	39°40'50.5781"N	80°38'28.9208"W	855.45	213.664	1.35
4272.00	23.760	207.520	4109.27	-142.26	-744.23	-492.13	1741300.62	14410641.94	39°40'50.2603"N	80°38'29.1518"W	892.22	213.475	1.43
4363.00	23.890	209.700	4192.52	-151.18	-776.49	-509.73	1741283.02	14410609.69	39°40'49.9421"N	80°38'29.3786"W	928.85	213.283	0.98
4454.00	24.170	211.360	4275.63	-158.96	-808.41	-528.55	1741264.20	14410577.79	39°40'49.6274"N	80°38'29.6210"W	965.86	213.177	0.80
4546.00	23.800	207.840	4359.69	-167.39	-840.90	-547.02	1741245.74	14410545.30	39°40'49.3070"N	80°38'29.8589"W	1003.17	213.045	1.61
4636.00	22.800	209.570	4442.35	-175.98	-872.13	-564.11	1741228.66	14410514.09	39°40'48.9991"N	80°38'30.0791"W	1038.67	212.896	1.35
4728.00	22.950	210.590	4527.12	-183.76	-903.07	-582.04	1741210.74	14410483.16	39°40'48.6939"N	80°38'30.3099"W	1074.39	212.802	0.46
4819.00	21.980	213.060	4611.21	-190.30	-932.62	-600.35	1741192.43	14410453.62	39°40'48.4027"N	80°38'30.5457"W	1109.15	212.771	1.49

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Slot	Slot 201H		

WELLPATH DATA (192 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
4909.00	22.220	213.720	4694.60	-195.75	-960.89	-618.99	1741173.80	14410425.36	39°40'48.1240"N	80°38'30.7855"W	1143.01	212.789	0.38
5001.00	22.960	214.360	4779.54	-201.04	-990.17	-638.77	1741154.03	14410396.09	39°40'47.8354"N	80°38'31.0400"W	1178.34	212.827	0.85
5092.00	23.430	212.890	4863.19	-206.66	-1020.02	-658.62	1741134.19	14410366.26	39°40'47.5412"N	80°38'31.2953"W	1214.17	212.850	0.82
5184.00	23.470	213.280	4947.59	-212.75	-1050.69	-678.60	1741114.21	14410335.60	39°40'47.2389"N	80°38'31.5525"W	1250.78	212.857	0.17
5279.00	22.240	209.840	5035.13	-219.81	-1082.11	-697.93	1741094.89	14410304.20	39°40'46.9292"N	80°38'31.8013"W	1287.66	212.821	1.91
5371.00	22.280	210.320	5120.28	-227.40	-1112.26	-715.40	1741077.43	14410274.05	39°40'46.6318"N	80°38'32.0263"W	1322.47	212.749	0.20
5461.00	22.770	210.960	5203.41	-234.57	-1141.93	-732.97	1741059.87	14410244.40	39°40'46.3394"N	80°38'32.2525"W	1356.92	212.695	0.61
5552.00	23.620	212.070	5287.06	-241.49	-1172.48	-751.71	1741041.13	14410213.86	39°40'46.0382"N	80°38'32.4938"W	1392.75	212.665	1.05
5643.00	22.810	209.280	5370.69	-248.91	-1203.31	-770.02	1741022.83	14410183.04	39°40'45.7342"N	80°38'32.7295"W	1428.60	212.616	1.50
5733.00	22.740	209.500	5453.67	-256.90	-1233.67	-787.11	1741005.74	14410152.69	39°40'45.4348"N	80°38'32.9497"W	1463.38	212.539	0.12
5824.00	22.320	208.130	5537.73	-265.24	-1264.21	-803.92	1740988.94	14410122.16	39°40'45.1336"N	80°38'33.1662"W	1498.18	212.453	0.74
5917.00	21.420	205.710	5624.04	-274.61	-1295.09	-819.62	1740973.25	14410091.30	39°40'44.8291"N	80°38'33.3685"W	1532.65	212.328	1.37
6008.00	22.310	208.840	5708.49	-283.58	-1325.19	-835.16	1740957.72	14410061.20	39°40'44.5322"N	80°38'33.5688"W	1566.41	212.220	1.61
6099.00	22.240	208.160	5792.70	-292.01	-1355.51	-851.62	1740941.27	14410030.90	39°40'44.2333"N	80°38'33.7809"W	1600.83	212.140	0.29
6193.00	22.970	209.400	5879.48	-300.67	-1387.17	-869.02	1740923.87	14409999.25	39°40'43.9210"N	80°38'34.0050"W	1636.90	212.066	0.93
6285.00	23.940	210.510	5963.88	-308.71	-1418.89	-887.31	1740905.59	14409967.54	39°40'43.6082"N	80°38'34.2406"W	1673.49	212.020	1.16
6375.00	23.740	212.960	6046.20	-315.60	-1449.83	-906.43	1740886.47	14409936.62	39°40'43.3033"N	80°38'34.4868"W	1709.86	212.014	1.12
6468.00	22.920	211.250	6131.60	-322.33	-1481.02	-926.01	1740866.90	14409905.44	39°40'42.9958"N	80°38'34.7388"W	1746.68	212.016	1.14
6560.00	21.360	209.390	6216.81	-329.71	-1510.93	-943.53	1740849.39	14409875.54	39°40'42.7009"N	80°38'34.9644"W	1781.34	211.983	1.86
6646.00	21.300	209.370	6296.92	-336.89	-1538.19	-958.88	1740834.05	14409848.29	39°40'42.4321"N	80°38'35.1620"W	1812.59	211.939	0.07
6746.00	20.840	209.640	6390.23	-345.07	-1569.48	-976.58	1740816.35	14409817.01	39°40'42.1235"N	80°38'35.3901"W	1848.51	211.891	0.47
6837.00	20.750	209.810	6475.31	-352.29	-1597.53	-992.60	1740800.34	14409788.97	39°40'41.8469"N	80°38'35.5964"W	1880.79	211.854	0.12
6929.00	20.530	209.300	6561.40	-359.64	-1625.74	-1008.60	1740784.35	14409760.77	39°40'41.5687"N	80°38'35.8024"W	1913.19	211.815	0.31
7020.00	20.410	225.970	6646.73	-362.41	-1650.71	-1027.83	1740765.12	14409735.82	39°40'41.3228"N	80°38'36.0497"W	1944.55	211.909	6.39
7112.00	20.890	243.190	6732.90	-355.72	-1669.27	-1054.03	1740738.93	14409717.26	39°40'41.1403"N	80°38'36.3857"W	1974.20	212.270	6.60
7203.00	23.240	257.790	6817.29	-339.68	-1680.40	-1086.08	1740706.89	14409706.14	39°40'41.0316"N	80°38'36.7962"W	2000.83	212.876	6.54
7293.00	26.340	267.720	6899.02	-315.31	-1684.95	-1123.42	1740669.57	14409701.59	39°40'40.9881"N	80°38'37.2739"W	2025.12	213.693	5.76
7383.00	30.100	274.790	6978.33	-283.33	-1683.86	-1165.88	1740627.12	14409702.68	39°40'41.0006"N	80°38'37.8170"W	2048.09	214.698	5.58
7474.00	34.330	281.490	7055.33	-243.33	-1676.84	-1213.80	1740579.22	14409709.70	39°40'41.0718"N	80°38'38.4295"W	2070.05	215.899	6.08
7564.00	40.570	288.460	7126.78	-194.84	-1662.50	-1266.51	1740526.53	14409724.03	39°40'41.2157"N	80°38'39.1029"W	2089.96	217.301	8.37



Actual Wellpath Report

SWN A WTZ 201H AWB_awp 50' - 16716' Proj: 16741'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	SWN A WTZ 201H
Field	Wetzel	API/Legal	
Facility	SWN A WTZ Pad	Wellbore	SWN A WTZ 201H AWB
Slot	Slot 201H		

WELLPATH DATA (192 stations)													
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
7655.00	48.550	294.600	7191.60	-135.30	-1638.88	-1325.71	1740467.36	14409747.64	39°40'41.4514"N	80°38'39.8589"W	2107.95	218.970	9.96
7746.00	58.350	299.050	7245.74	-65.03	-1605.78	-1390.76	1740402.33	14409780.72	39°40'41.7810"N	80°38'40.6891"W	2124.32	220.896	11.46
7837.00	66.520	299.900	7287.82	13.45	-1566.10	-1460.92	1740332.20	14409820.39	39°40'42.1759"N	80°38'41.5844"W	2141.72	223.010	9.02
7929.00	72.110	303.440	7320.31	97.90	-1520.90	-1534.10	1740259.05	14409865.57	39°40'42.6255"N	80°38'42.5181"W	2160.23	225.248	7.06
8021.00	77.690	305.640	7344.27	185.80	-1470.54	-1607.22	1740185.96	14409915.91	39°40'43.1260"N	80°38'43.4508"W	2178.45	227.543	6.49
8111.00	82.810	309.900	7359.51	274.13	-1416.23	-1677.28	1740115.92	14409970.20	39°40'43.6655"N	80°38'44.3441"W	2195.22	229.824	7.36
8202.00	89.510	311.120	7365.60	364.81	-1357.28	-1746.27	1740046.96	14410029.13	39°40'44.2508"N	80°38'45.2234"W	2211.71	232.144	7.48
8295.00	89.200	309.310	7366.65	457.72	-1297.24	-1817.28	1739975.98	14410089.15	39°40'44.8469"N	80°38'46.1286"W	2232.79	234.479	1.97
8385.00	91.200	310.460	7366.34	547.60	-1239.53	-1886.33	1739906.95	14410146.83	39°40'45.4199"N	80°38'47.0089"W	2257.14	236.691	2.56
8475.00	90.890	313.080	7364.69	637.57	-1179.60	-1953.44	1739839.87	14410206.75	39°40'46.0149"N	80°38'47.8642"W	2281.97	238.874	2.93
8566.00	91.350	315.420	7362.91	728.51	-1116.11	-2018.61	1739774.73	14410270.20	39°40'46.6448"N	80°38'48.6945"W	2306.62	241.061	2.62
8657.00	92.620	315.550	7359.76	819.34	-1051.26	-2082.37	1739711.00	14410335.03	39°40'47.2882"N	80°38'49.5067"W	2332.68	243.213	1.40
8748.00	91.820	312.930	7356.24	910.23	-987.83	-2147.51	1739645.88	14410398.43	39°40'47.9176"N	80°38'50.3366"W	2363.81	245.298	3.01
8838.00	92.150	313.450	7353.12	1000.17	-926.27	-2213.08	1739580.33	14410459.97	39°40'48.5285"N	80°38'51.1723"W	2399.11	247.289	0.68
8928.00	91.140	311.940	7350.54	1090.13	-865.27	-2279.20	1739514.24	14410520.95	39°40'49.1340"N	80°38'52.0149"W	2437.92	249.211	2.02
9020.00	93.570	312.730	7346.76	1182.04	-803.37	-2347.15	1739446.32	14410582.82	39°40'49.7483"N	80°38'52.8808"W	2480.83	251.105	2.78
9113.00	92.000	309.800	7342.24	1274.89	-742.11	-2416.96	1739376.53	14410644.06	39°40'50.3564"N	80°38'53.7707"W	2528.33	252.931	3.57
9203.00	92.280	308.490	7338.88	1364.66	-685.34	-2486.71	1739306.81	14410700.81	39°40'50.9202"N	80°38'54.6599"W	2579.42	254.592	1.49
9295.00	92.620	309.420	7334.94	1456.39	-627.55	-2558.19	1739235.36	14410758.57	39°40'51.4941"N	80°38'55.5712"W	2634.04	256.217	1.08
9387.00	92.920	313.630	7330.49	1548.24	-566.65	-2626.97	1739166.61	14410819.46	39°40'52.0987"N	80°38'56.4479"W	2687.39	257.828	4.58
9477.00	92.460	312.990	7326.27	1638.13	-504.98	-2692.39	1739101.22	14410881.10	39°40'52.7106"N	80°38'57.2815"W	2739.33	259.377	0.88
9568.00	93.330	313.750	7321.67	1729.01	-442.57	-2758.45	1739035.18	14410943.48	39°40'53.3300"N	80°38'58.1234"W	2793.73	260.885	1.27
9658.00	91.820	313.110	7317.63	1818.91	-380.76	-2823.74	1738969.91	14411005.27	39°40'53.9433"N	80°38'58.9554"W	2849.30	262.320	1.82
9751.00	92.340	312.980	7314.26	1911.84	-317.33	-2891.66	1738902.02	14411068.68	39°40'54.5729"N	80°38'59.8210"W	2909.02	263.738	0.58
9842.00	92.430	313.220	7310.47	2002.76	-255.20	-2958.05	1738835.65	14411130.78	39°40'55.1894"N	80°39'0.6670"W	2969.04	265.069	0.28
9935.00	92.650	313.380	7306.35	2095.66	-191.48	-3025.67	1738768.06	14411194.47	39°40'55.8217"N	80°39'1.5287"W	3031.72	266.379	0.29
10026.00	91.660	312.400	7302.93	2186.60	-129.59	-3092.29	1738701.47	14411256.34	39°40'56.4359"N	80°39'2.3777"W	3095.00	267.600	1.53
10117.00	91.820	313.470	7300.16	2277.55	-67.64	-3158.88	1738634.90	14411318.27	39°40'57.0508"N	80°39'3.2264"W	3159.61	268.773	1.19
10209.00	91.540	313.810	7297.46	2369.50	-4.17	-3225.43	1738568.38	14411381.71	39°40'57.6805"N	80°39'4.0745"W	3225.44	269.926	0.48
10300.00	91.820	313.540	7294.80	2460.44	58.64	-3291.22	1738502.61	14411444.50	39°40'58.3038"N	80°39'4.9128"W	3291.74	271.021	0.43

REFERENCE WELLPATH IDENTIFICATION				
Operator	SWN PRODUCTION COMPANY, LLC		Well	SWN A WTZ 201H
Field	Wetzel		API/Legal	
Facility	SWN A WTZ Pad		Wellbore	SWN A WTZ 201H AWB
Slot	Slot 201H			

WELLPATH DATA (192 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
10392.00	91.540	313.900	7292.10	2552.39	122.20	-3357.68	1738436.18	14411508.03	39°40'58.9345"N	80°39'5.7597"W	3359.91	272.084	0.50
10482.00	92.250	314.030	7289.12	2642.31	184.64	-3422.43	1738371.46	14411570.45	39°40'59.5541"N	80°39'6.5847"W	3427.40	273.088	0.80
10574.00	91.540	313.190	7286.08	2734.25	248.06	-3489.00	1738304.91	14411633.85	39°41'0.1835"N	80°39'7.4331"W	3497.81	274.067	1.20
10665.00	92.280	313.040	7283.05	2825.20	310.22	-3555.39	1738238.54	14411695.98	39°41'0.8003"N	80°39'8.2792"W	3568.90	274.987	0.83
10757.00	92.000	313.860	7279.61	2917.12	373.45	-3622.14	1738171.83	14411759.18	39°41'1.4277"N	80°39'9.1298"W	3641.34	275.887	0.94
10849.00	92.000	313.430	7276.40	3009.05	436.91	-3688.67	1738105.32	14411822.62	39°41'2.0574"N	80°39'9.9777"W	3714.45	276.755	0.47
10941.00	91.660	313.670	7273.46	3100.99	500.26	-3755.31	1738038.70	14411885.95	39°41'2.6861"N	80°39'10.8270"W	3788.49	277.588	0.45
11033.00	91.910	313.430	7270.60	3192.94	563.62	-3821.96	1737972.08	14411949.28	39°41'3.3148"N	80°39'11.6763"W	3863.30	278.389	0.38
11124.00	92.250	314.090	7267.30	3283.86	626.52	-3887.64	1737906.43	14412012.15	39°41'3.9389"N	80°39'12.5133"W	3937.80	279.155	0.82
11215.00	91.510	313.460	7264.31	3374.79	689.44	-3953.31	1737840.78	14412075.05	39°41'4.5632"N	80°39'13.3502"W	4012.98	279.893	1.07
11305.00	91.970	314.180	7261.58	3464.73	751.72	-4018.22	1737775.90	14412137.31	39°41'5.1812"N	80°39'14.1773"W	4087.93	280.596	0.95
11397.00	91.750	313.960	7258.59	3556.65	815.68	-4084.29	1737709.86	14412201.24	39°41'5.8158"N	80°39'15.0192"W	4164.94	281.294	0.34
11488.00	91.820	313.840	7255.76	3647.59	878.75	-4149.82	1737644.35	14412264.29	39°41'6.4416"N	80°39'15.8544"W	4241.84	281.956	0.15
11576.00	91.260	313.350	7253.39	3735.54	939.41	-4213.53	1737580.66	14412324.92	39°41'7.0435"N	80°39'16.6663"W	4316.98	282.569	0.85
11669.00	91.420	313.880	7251.22	3828.50	1003.54	-4280.84	1737513.38	14412389.03	39°41'7.6799"N	80°39'17.5242"W	4396.90	283.193	0.60
11759.00	90.990	314.060	7249.32	3918.46	1066.01	-4345.60	1737448.64	14412451.48	39°41'8.2998"N	80°39'18.3494"W	4474.44	283.783	0.52
11850.00	91.230	314.210	7247.56	4009.41	1129.37	-4410.90	1737383.37	14412514.81	39°41'8.9284"N	80°39'19.1816"W	4553.19	284.362	0.31
11941.00	91.080	313.850	7245.73	4100.37	1192.60	-4476.32	1737317.98	14412578.02	39°41'9.5558"N	80°39'20.0152"W	4632.46	284.919	0.43
12031.00	90.950	314.210	7244.13	4190.33	1255.15	-4541.01	1737253.31	14412640.54	39°41'10.1764"N	80°39'20.8397"W	4711.28	285.451	0.43
12123.00	90.980	312.790	7242.58	4282.30	1318.47	-4607.74	1737186.61	14412703.83	39°41'10.8046"N	80°39'21.6900"W	4792.66	285.968	1.54
12213.00	91.390	312.090	7240.72	4372.28	1379.19	-4674.14	1737120.23	14412764.53	39°41'11.4072"N	80°39'22.5364"W	4873.37	286.440	0.90
12304.00	90.950	311.590	7238.86	4463.25	1439.87	-4741.92	1737052.48	14412825.19	39°41'12.0096"N	80°39'23.4005"W	4955.71	286.891	0.73
12395.00	90.890	311.590	7237.40	4554.23	1500.27	-4809.97	1736984.45	14412885.57	39°41'12.6091"N	80°39'24.2680"W	5038.52	287.323	0.07
12485.00	90.890	311.690	7236.00	4644.20	1560.06	-4877.23	1736917.23	14412945.34	39°41'13.2025"N	80°39'25.1253"W	5120.66	287.738	0.11
12576.00	92.090	312.270	7233.64	4735.16	1620.91	-4944.85	1736849.63	14413006.16	39°41'13.8064"N	80°39'25.9873"W	5203.74	288.149	1.46
12666.00	91.690	310.100	7230.67	4825.08	1680.14	-5012.54	1736781.97	14413065.36	39°41'14.3943"N	80°39'26.8503"W	5286.63	288.530	2.45
12757.00	91.540	312.520	7228.11	4916.01	1740.18	-5080.86	1736713.67	14413125.38	39°41'14.9903"N	80°39'27.7213"W	5370.60	288.906	2.66
12849.00	91.020	312.120	7226.05	5007.99	1802.11	-5148.87	1736645.69	14413187.28	39°41'15.6048"N	80°39'28.5882"W	5455.13	289.290	0.71
12940.00	91.110	311.790	7224.36	5098.96	1862.93	-5216.53	1736578.05	14413248.09	39°41'16.2085"N	80°39'29.4507"W	5539.20	289.653	0.38
13032.00	90.740	312.470	7222.87	5190.95	1924.64	-5284.75	1736509.86	14413309.77	39°41'16.8209"N	80°39'30.3204"W	5624.31	290.011	0.84

REFERENCE WELLPATH IDENTIFICATION				
Operator	SWN PRODUCTION COMPANY, LLC		Well	SWN A WTZ 201H
Field	Wetzel		API/Legal	
Facility	SWN A WTZ Pad		Wellbore	SWN A WTZ 201H AWB
Slot	Slot 201H			

WELLPATH DATA (192 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
13122.00	90.860	312.310	7221.62	5280.94	1985.31	-5351.22	1736443.42	14413370.42	39°41'17.4230"N	80°39'31.1676"W	5707.62	290.355	0.22
13214.00	90.830	312.060	7220.26	5372.92	2047.08	-5419.38	1736375.29	14413432.17	39°41'18.0361"N	80°39'32.0365"W	5793.12	290.693	0.27
13304.00	90.800	312.340	7218.98	5462.91	2107.53	-5486.05	1736308.65	14413492.59	39°41'18.6360"N	80°39'32.8863"W	5876.94	291.015	0.31
13395.00	90.740	311.920	7217.76	5553.90	2168.57	-5553.53	1736241.19	14413553.60	39°41'19.2417"N	80°39'33.7465"W	5961.91	291.330	0.47
13487.00	90.800	312.010	7216.52	5645.88	2230.08	-5621.93	1736172.82	14413615.09	39°41'19.8522"N	80°39'34.6185"W	6048.09	291.637	0.12
13577.00	90.800	311.890	7215.26	5735.87	2290.24	-5688.86	1736105.91	14413675.23	39°41'20.4492"N	80°39'35.4717"W	6132.56	291.929	0.13
13668.00	90.830	311.820	7213.97	5826.85	2350.95	-5756.63	1736038.17	14413735.92	39°41'21.0518"N	80°39'36.3357"W	6218.18	292.215	0.08
13759.00	90.800	311.800	7212.68	5917.83	2411.61	-5824.45	1735970.37	14413796.55	39°41'21.6538"N	80°39'37.2003"W	6303.98	292.492	0.04
13852.00	90.740	309.380	7211.43	6010.76	2472.11	-5895.06	1735899.79	14413857.03	39°41'22.2544"N	80°39'38.1007"W	6392.43	292.751	2.60
13945.00	89.750	311.500	7211.03	6103.68	2532.43	-5965.84	1735829.04	14413917.33	39°41'22.8532"N	80°39'39.0031"W	6481.08	293.001	2.52
14035.00	90.220	312.310	7211.05	6193.67	2592.54	-6032.82	1735762.09	14413977.41	39°41'23.4497"N	80°39'39.8570"W	6566.29	293.255	1.04
14127.00	90.250	313.190	7210.67	6285.67	2654.99	-6100.38	1735694.55	14414039.84	39°41'24.0694"N	80°39'40.7182"W	6653.09	293.520	0.96
14218.00	90.370	313.570	7210.18	6376.66	2717.49	-6166.51	1735628.44	14414102.31	39°41'24.6895"N	80°39'41.5612"W	6738.74	293.782	0.44
14310.00	90.490	313.280	7209.49	6468.65	2780.73	-6233.33	1735561.65	14414165.53	39°41'25.3170"N	80°39'42.4128"W	6825.46	294.042	0.34
14401.00	90.220	313.280	7208.93	6559.64	2843.12	-6299.58	1735495.43	14414227.89	39°41'25.9360"N	80°39'43.2573"W	6911.44	294.291	0.30
14491.00	90.520	313.330	7208.35	6649.63	2904.85	-6365.07	1735429.96	14414289.59	39°41'26.5485"N	80°39'44.0921"W	6996.59	294.531	0.34
14581.00	90.370	313.440	7207.65	6739.62	2966.67	-6430.48	1735364.58	14414351.39	39°41'27.1619"N	80°39'44.9258"W	7081.82	294.766	0.21
14672.00	90.340	313.270	7207.08	6830.62	3029.14	-6496.64	1735298.44	14414413.83	39°41'27.7817"N	80°39'45.7692"W	7168.13	294.998	0.19
14764.00	90.580	312.920	7206.34	6922.61	3091.99	-6563.82	1735231.29	14414476.66	39°41'28.4054"N	80°39'46.6255"W	7255.63	295.224	0.46
14857.00	90.520	313.350	7205.45	7015.60	3155.57	-6631.68	1735163.45	14414540.22	39°41'29.0363"N	80°39'47.4906"W	7344.17	295.447	0.47
14950.00	90.620	312.920	7204.53	7108.59	3219.16	-6699.55	1735095.62	14414603.78	39°41'29.6672"N	80°39'48.3556"W	7432.82	295.664	0.47
15040.00	90.520	313.240	7203.63	7198.59	3280.62	-6765.28	1735029.91	14414665.22	39°41'30.2771"N	80°39'49.1935"W	7518.74	295.870	0.37
15131.00	90.120	313.340	7203.12	7289.58	3343.02	-6831.52	1734963.70	14414727.60	39°41'30.8962"N	80°39'50.0379"W	7605.62	296.075	0.45
15221.00	90.280	312.750	7202.81	7379.58	3404.45	-6897.29	1734897.95	14414789.00	39°41'31.5058"N	80°39'50.8763"W	7691.74	296.271	0.68
15313.00	90.650	313.880	7202.06	7471.57	3467.56	-6964.22	1734831.04	14414852.09	39°41'32.1319"N	80°39'51.7296"W	7779.74	296.469	1.29
15403.00	90.340	313.150	7201.28	7561.55	3529.53	-7029.49	1734765.80	14414914.03	39°41'32.7467"N	80°39'52.5615"W	7865.83	296.661	0.88
15494.00	90.490	313.250	7200.63	7652.54	3591.82	-7095.82	1734699.50	14414976.30	39°41'33.3648"N	80°39'53.4071"W	7953.10	296.848	0.20
15585.00	90.460	313.530	7199.87	7743.53	3654.33	-7161.95	1734633.40	14415038.79	39°41'33.9850"N	80°39'54.2500"W	8040.38	297.033	0.31
15676.00	90.580	312.460	7199.05	7834.53	3716.38	-7228.50	1734566.87	14415100.81	39°41'34.6007"N	80°39'55.0984"W	8127.90	297.209	1.18
15767.00	91.140	312.050	7197.68	7925.51	3777.57	-7295.85	1734499.55	14415161.97	39°41'35.2079"N	80°39'55.9570"W	8215.81	297.374	0.76

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	SWN A WTZ 201H
Field	Wetzel	API/Legal	
Facility	SWN A WTZ Pad	Wellbore	SWN A WTZ 201H AWB
Slot	Slot 201H		

WELLPATH DATA (192 stations) † = interpolated, ‡ = extrapolated station													
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS ["/100ft]
15859.00	92.520	313.960	7194.74	8017.46	3840.28	-7363.09	1734432.33	14415224.66	39°41'35.8301"N	80°39'56.8142"W	8304.39	297.545	2.56
15950.00	91.480	311.750	7191.56	8108.40	3902.13	-7429.76	1734365.69	14415286.49	39°41'36.4439"N	80°39'57.6641"W	8392.13	297.709	2.68
16042.00	90.620	311.590	7189.88	8200.37	3963.29	-7498.47	1734297.01	14415347.62	39°41'37.0508"N	80°39'58.5402"W	8481.43	297.859	0.95
16135.00	90.860	311.660	7188.68	8293.34	4025.06	-7567.98	1734227.52	14415409.36	39°41'37.6638"N	80°39'59.4265"W	8571.78	298.006	0.27
16226.00	91.260	312.040	7186.99	8384.32	4085.76	-7635.75	1734159.78	14415470.04	39°41'38.2662"N	80°40'0.2906"W	8660.15	298.150	0.61
16318.00	90.800	312.260	7185.34	8476.30	4147.49	-7703.95	1734091.61	14415531.75	39°41'38.8787"N	80°40'1.1601"W	8749.43	298.296	0.55
16410.00	90.620	311.720	7184.20	8568.29	4209.03	-7772.32	1734023.26	14415593.27	39°41'39.4895"N	80°40'2.0318"W	8838.83	298.437	0.62
16500.00	90.830	312.560	7183.06	8658.27	4269.41	-7839.05	1733956.56	14415653.62	39°41'40.0886"N	80°40'2.8826"W	8926.29	298.574	0.96
16591.00	90.550	315.210	7181.97	8749.24	4332.48	-7904.63	1733891.01	14415716.67	39°41'40.7144"N	80°40'3.7185"W	9014.08	298.727	2.93
16683.00	90.030	314.140	7181.50	8841.18	4397.16	-7970.05	1733825.61	14415781.33	39°41'41.3560"N	80°40'4.5524"W	9102.57	298.886	1.29
16716.00	90.120	314.390	7181.46	8874.16	4420.20	-7993.68	1733801.99	14415804.35	39°41'41.5845"N	80°40'4.8536"W	9134.39	298.941	0.81
16741.00‡	90.120	314.390	7181.40	8899.15	4437.69	-8011.55	1733784.13	14415821.83	39°41'41.7580"N	80°40'5.0813"W	9158.49	298.983	0.00

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SWN A WTZ 201H BHL Rev 3	7169.89	4431.14	-8018.61	1733777.07	14415815.29	39°41'41.6935"N	80°40'5.1720"W	point
SWN A WTZ 201H LP Rev 3	7364.00	-1364.30	-1727.35	1740065.88	14410022.11	39°40'44.1807"N	80°38'44.9818"W	point

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	SWN A WTZ 201H
Field	Wetzel	API/Legal	
Facility	SWN A WTZ Pad	Wellbore	SWN A WTZ 201H AWB
Slot	Slot 201H		

WELLPATH COMPOSITION - Ref Wellbore: SWN A WTZ 201H AWB Ref Wellpath: SWN A WTZ 201H AWB_awp 50' - 16716' Proj: 16741'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
26.00	370.00	Gyrodatta 2015 - GC+WIR+DPIPE	1 Gyro 50' - 370'	SWN A WTZ 201H AWB	1/22/2022
370.00	2843.00	OWSG MWD rev2 + HRGM	2 Tally MWD 421' - 2843'	SWN A WTZ 201H AWB	1/22/2022
2843.00	6099.00	OWSG MWD rev2 + HRGM	3 Tally MWD 2945' - 6099'	SWN A WTZ 201H AWB	1/27/2022
6099.00	16741.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	4 BH MWD 6193' - 16716'	SWN A WTZ 201H AWB	1/29/2022